

	Application No.	Applicant(s)	
Notice of Allowability	10/646,997	HARRIS ET AL.	
	Examiner	Art Unit	
	Kiesha L. Rose	2822	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS			
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>10/17/05</u> .			
2. The allowed claim(s) is/are <u>1-11 and 13-20</u> .			
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) All b) Some* c) None of the:			
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
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Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	F. Motion of Informal D	atent Application (PTO-152)	
2. Notice of Naterences Cited (PTO-932) Notice of Draftperson's Patent Drawing Review (PTO-948)			
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Date	 Interview Summary (PTO-413), Paper No./Mail Date Examiner's Amendment/Comment 	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit		nt of Reasons for Allowance	
of Biological Material	9. Other		
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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John DeAngelis on January 20, 2006.

The application has been amended as follows:

Title:

A Spiral Inductor Formed in a Semiconductor Substrate

Claims:

Claims 12 and 21-27 are cancelled.

Claim 10

A semiconductor device comprising: a semiconductor substrate; a plurality of active regions formed in the semiconductor substrate; a first dielectric layer overlying the semiconductor substrate; a plurality of conductive interconnect layers alternating with a plurality of dielectric layers for connecting to active regions, a continuous conductor formed in one of the plurality of conductive interconnect layers; and wherein the semiconductor substrate defines a first void therein in a region underlying the continuous conductor and a tungsten plug extending from the continuous conductor to one of the plurality of active regions.

Allowable Subject Matter

Claims 1-11 and 13-20 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 1-11 and 13-20 are allowable because prior art does not disclose alone or in combination with the limitations of the independent claims such as a substrate with void with an active region with a tungsten plug extending from the continuous conductor to an active region of the substrate.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiesha L. Rose whose telephone number is 571-272-1844. The examiner can normally be reached on T-F 8:30-6:00 off Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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KLR

SUPERVISORY PATENT EXAMINER

20 Jan. 2000